



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application Number : 10/715,417 Confirmation No.: 5850
Applicant : Eivind Per Thor STRATEN et al.
Filed : November 19, 2003
Title : SURVIVIN-DERIVED PEPTIDES AND USE THEREOF
TC/Art Unit : 1646
Examiner: : Unassigned

Docket No. : 60820.000004
Customer No. : 21967

Mail Stop Amendment

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

In accordance with 37 C.F.R. §§ 1.97 and 1.98, and in compliance with the duty of disclosure set forth in 37 C.F.R. § 1.56, applicants are submitting herewith copies of the references listed on the attached Form PTO-SB/08A (modified) for consideration and to be made of record herein by the U.S. Patent and Trademark Office in the above-captioned application.

The subject application is a Continuation-in-Part Application of, and claims priority under 35 U.S.C. §120 to, U.S. Application No. 10/354,090, filed January 30, 2003, which claims benefit of Application No. 60/352,284, filed January 30, 2002. In accordance with 37 C.F.R. § 1.98(d), patent documents and published articles which were cited in the prior application are listed on the accompanying Form PTO-SB/08A, but copies of these documents are not enclosed as they were provided in the prior application. Copies will be forwarded at the request of the Examiner.

Applicants respectfully point out that the submission of the listed references in this Information Disclosure Statement is not an admission that they are prior art or that they are material to patentability of any claims of the application. Also, the submission of this Information Disclosure Statement is not an indication that a search has been made.


Consideration of the foregoing plus the prompt return of a copy of the enclosed Form SB/08A with the Examiner's initials in the left column in accordance with MPEP 609 are respectfully requested.

In accordance with 37 C.F.R. § 1.97(b), this Information Disclosure Statement is believed to be submitted prior to the mailing of a first Office Action on the merits. Therefore, it is respectfully submitted that no fee is required for consideration of this information. However, in the event any fee is deemed necessary, the Commissioner is authorized to charge the undersigned's Deposit Account No. 50-0206.

Respectfully submitted,

HUNTON & WILLIAMS LLP

Dated: August 24, 2004

By: 
Robert C. Lampe, III
Registration No. 51,914

Hunton & Williams LLP
Intellectual Property Department
1900 K Street, N.W.
Suite 1200
Washington, DC 20006
(202) 955-1500 (telephone)
(202) 778-2201 (facsimile)

RCL/sdw:dms

Substitute for form 1449A/PTO <h2 style="text-align: center;">INFORMATION DISCLOSURE STATEMENT BY APPLICANT</h2> <p style="text-align: center;"><i>(use as many sheets as necessary)</i></p>				Application Number 10/715,417	
		Filing Date November 19, 2003			
		First Named Inventor Eivind Per Thor STRATEN et al.			
		Art Unit 1646			
		Examiner Name Unassigned			
		Attorney Docket Number 60820.000004			
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PATENT DOCUMENTS					
*Examiner Initials	Cite No.	DOCUMENT NUMBER Number - Kind Code (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	1.	US- 6,245,523	06-12-2001	ALTIERI	

FOREIGN PATENT DOCUMENTS								
*Examiner Initial	Cite No.	FOREIGN PATENT DOCUMENT		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	TRANSLATION	
		Country Code:	Number - Kind Code (if known)				YES	NO
	2.	WO	92/20356	11-26-1992	BOON, T. et al			
	3.	WO	94/05304	03-17-1994	BOON-FALLEUR, T., et al			
	4.	WO	97/28816	08-14-1997	JAGER, E., et al			
	5.	WO	00/03693	01-27-2000	LEASON, H., et al.			

NON-PATENT LITERATURE DOCUMENTS				
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	6.	VAN DEN EYNDE, B. J. et al., "Tumor antigens recognized by T lymphocytes", Int. J. Clin. Lab. Res., 27:81-86, 1997		
	7.	ROSENBERG, S. A., "Development of cancer immunotherapies based on identification of the genes encoding cancer regression antigens," J. Natl. Cancer Inst., 22;88: 1635-1644, 1996		

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Application Number	10/715,417
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Art Unit	1646
Examiner Name	Unassigned

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			YES	NO
	8.	MARCHAND, M. et al., "T. Tumor regressions observed in patients with metastatic melanoma treated with an antigenic peptide encoded by gene MACE-3 and presented by HLA- A1," Int. J. Cancer, 80: 219-230, 1999		
	9.	BROSSART, P. et al., "W. Her-2/neu-derived peptides are tumor-associated antigens expressed by human renal cell and colon carcinoma lines and are recognized by in vitro induced specific cytotoxic T lymphocytes," Cancer Res., 58: 732-736, 1998.		
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	11.	VONDERHEIDE, R. et al., "The telomerase catalytic subunit is a widely expressed tumor-associated antigen recognized by cytotoxic T lymphocytes," Immunity, 10:673-679, 1999		
	12.	LACASSE, E. C. et al., "The inhibitors of apoptosis (IAPs) and their emerging role in cancer. Oncogene, 17:3247-3259, 1998		
	13.	ALTIERI, D. C. et al., "Survivin apoptosis: an interloper between cell death and cell proliferation in cancer," Lab Invest, 79:1327-1333, 1999		
	14.	AMBROSINI, G. et al., "Induction of apoptosis and inhibition of cell proliferation by survivin, in human melanoma," J. Invest Dermatol., 113:1076-1081, 1999		
	15.	GROSSMAN, D. et al., "Expression and targeting of the apoptosis inhibitor, survivin, in human melanoma," J. Invest Dermatol., 113: 1076-1081, 1999.		
	16.	GROSSMAN, D. et al., "Expression of the apoptosis inhibitor, survivin, in nonmelanoma skin cancer and gene targeting in a keratinocyte cell line," Lab Invest, 79: 1121-1126, 1999		
	17.	ANDERSEN, M. H. et al., "An assay for peptide binding to HLA-Cw*0102," Tissue Antigens, 54:185-190, 1999		

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			YES	NO
	18.	ANDERSEN, M. H. et al., "Phosphorylated Peptides Can Be Transported by TAP Molecules, Presented by Class I MHC Molecules, and Recognized by Phosphopeptide-Specific CTL. J. Immunol., 163:3812-3188, 1999		
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	21.	BERKE, Z. et al., "Peptides spanning the junctional region of both the abl/bcr and the bcr/abl fusion proteins bind common HLA class I molecules," Leukemia, 14:419-426, 2000		
	22.	FALK, K. et al., "Allele-specific motifs revealed by sequencing of self-peptides eluted from MHC molecules," Nature, 351:290-296, 1991		
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	24.	LEE, S. P. et al., "CTL control of EVB in nasopharyngeal carcinoma (NPC): EBV-specific CTL responses in the blood and tumors of NPC patients and the antigen-processing function of the tumor cells," Immunol., 165: 573-582, 2000		
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			YES	NO
	27.	SALGALLER, H. L. et. al., "Immunization against epitopes in the human melanoma antigen gp100 following patient immunization with synthetic peptide," Cancer Res., 56:4749-4757, 1996		
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	37.	ANDERSEN, M. H. et al., "Identification of a Cytotoxic T Lymphocyte Response to the Apoptosis inhibitor Protein Survivin in Cancer Patients," Cancer Res., 61:869-872, 2001			
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	41.	SCHRAMA, D. et al., "Oligoclonal I-Cell Receptor Usage Of Melanocyte Differentiation Antigen-reactive I Cells in Stage IV Melanoma Patients," Cancer Res., 61: 493-496, 2001			
	42.	LUXEMBOURG, A. T. et al., "Biomagnetic isolation of antigen-specific CCD8+ T cells usable in immunotherapy," Nat. Biotechnol., 16: 281-285, 1998			
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	45.	thor STRATEN, P. et al., "In Situ I-Cell Responses against Melanoma Comprise High Numbers of Locally Expanded I-Cell Clonotypes," J. Immunol., 163: 443-447, 1999		
	46.	KESSLER, J. H. et al., "Efficient identification of novel HLA-A(*)0201-presented cytotoxic T lymphocyte epitopes In the widely expressed tumor antigen PRAME by proteasome-mediated digestion analysis," J. Exp. Med., 193: 73-88, 2001		
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	50.	RIKER, A. et al., "Immune selection after antigen-specific immunotherapy of melanoma," Surgery, 126: 112-120, 1999		
	51.	MAEURER, N. J., "Tumor escape from immune recognition: lethal recurrent melanoma in a patient associated with downregulation of the peptide transporter protein TAP-1 and loss of expression of the immunodominant MART-1/Melan-A antigen," J. Clin. Invest, 98: 1633-1641, 1996		
	52.	GROSSMAN, D. et al., "Inhibition of melanoma tumor growth in vivo by survivin targeting," Proc. Natl. Acad. Sci. USA, 98: 635-640, 2001		
	53.	TAMM, I. et al., "IAP-family protein survivin inhibits caspase activity and apoptosis induced by Fas (CD95), Bax, caspases, and anticancer drugs," Cancer Res., 58: 5315-5320, 1998		

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			YES	NO
	54.	MONZO, M. et al., "A novel anti-apoptosis gene: Re-expression of survivin messenger RNA as a prognosis marker in non-small-cell lung cancers," J. Clin. Oncol., 17: 2100-2104, 1999		
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	62.	GRANZIERO, L. et al., "Survivin is expressed on CD40 stimulation and interfaces proliferation and apoptosis in B-cell chronic lymphocytic leukemia," Blood, 97: 2777-2783, 2001		
	63.	AMBROSINI, C. et al., "A novel anti-apoptosis gene, survivin, expressed in cancer and lymphoma," Nat. Med., 3: 917-921, 1997		

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	64.	ALTIERI, D. C. et al., "Validating survivin as a cancer therapeutic target," Nat. Rev. Cancer, 3: 46-54, 2003		
	65.	OLIE, R. A. et al., "A novel antisense oligonucleotide targeting survivin expression induces apoptosis and sensitizes lung cancer cells to chemotherapy," Cancer Res, 60: 2805-2809, 2000		
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	73.	SCHRAMA, D., Pedersen Ls, L. O., Keikavoussi, P., Andersen, N. H., Straten, P. P., Brocker, E. B., Kampgen, F., and Brocker, E. C., "Aggregation of antigen-specific I cells at the inoculation site of mature dendritic cells," J. Invest Dermatol., 119: 1443-1448, 2002		
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				Art Unit 1646	
				Examiner Name Unassigned	
Sheet 10		of 10		Attorney Docket Number 60820.000004	
NON-PATENT LITERATURE DOCUMENTS					
*Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	TRANSLATION		
			YES	NO	
	81.	CLAY, T. M., Custer, M. C., McKee, M. D., Parkhurst, N., Robbins, P. F., Kerstann, K., Wunderlich, J., Rosenberg, S. A., and Nishimura, M. I., "Changes in the fine specificity of gp100(209-217)-reactive T cells in patients following vaccination with a peptide modified at an HLA-A2.1 anchor residue," J. Immunol., 162: 1749-1755, 1999			
	82.	MELIEF, C. J., van der Burg, S. H., Toes, R. E., Ossendorp, F., and Offringa, R., "Effective therapeutic anticancer vaccines based on precision guiding of cytolytic T lymphocytes. Immunol. Rev., 188: 177-182, 2002			
	83.	JAGER, E., Ringhoffer, M., Altmannsberger, M., Arand, M., Karbach, J., Jager, D., Oesch, F., and Knuth, A., "Immunoselection in vivo: independent loss of MHC class I and melanocyte differentiation antigen expression in metastatic melanoma," Int. J. Cancer, 71: 142-147, 1997			
	84.	THURNER, B., Haendle, I., Roder, C., Dieckmann, D., Keikavoussi, P., Jonuleit, H., Bender, A., Maczek, C., Schreiner, D., von den, D. P., Brocker, E. B., Steinman, R. M., Enk, A., Kämpgen, E., and Schuler, G., "Vaccination with mage3A1 peptide-pulsed mature, monocyte-derived dendritic cells expands specific cytotoxic T cells and induces regression of some metastases in advanced stage IV melanoma," J. Exp. Med., 190: 1669-1678, 1999			
	85.	YEE, C., Thompson, J. A., Roche, P., Byrd, D. P., Lee, P. P., Piepkorn, N., Kenyon, K., Davis, N. N., Riddell, S. R., and Greenberg, P. D., "Melanocyte destruction after antigen-specific immunotherapy of melanoma: direct evidence of cell-mediated vitiligo," J. Exp. Med., 192: 1637-1644, 2000			
	86.	SIMON, R. M., Steinberg, S. M., Hamilton, M., Hildesheim, A., Khleif, S., Kwak, L. W., Mackall, C. L., Schlom, J., Topalian, S. L., and Berzofsky, J. A., "Clinical trial designs for the early clinical development of therapeutic cancer vaccines," J. Clin. Oncol., 19: 1848-1854, 2001			
EXAMINER SIGNATURE			DATE CONSIDERED		
<p>*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.</p>					